# Create an Azure AD Application for App-Owns-Data Embedding

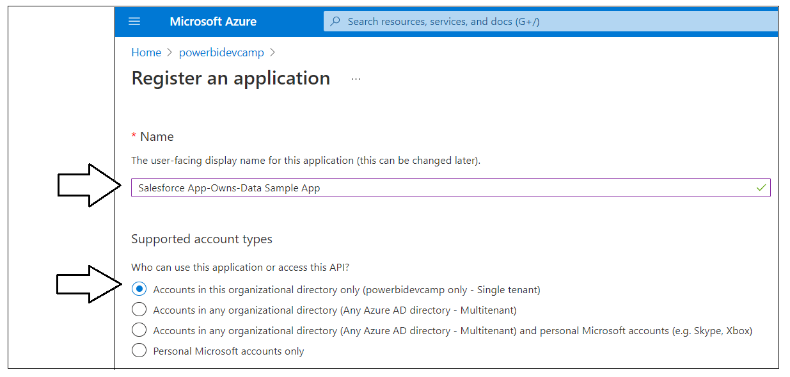
Follow these steps in this document to create a new Azure AD application for the [**SalesforceAppOwnsDataEmbedding**](https://github.com/PowerBiDevCamp/SalesforceAppOwnsDataEmbedding/tree/main/SalesforceAppOwnsDataEmbedding/force-app/main/default/aura/powerBiReportAura) sample project in the Azure portal. When you login to the Azure portal, make sure you log in using a user account in the same tenant which contains the Power BI reports you'd like to embed.

Begin by navigating to the [App registration](https://portal.azure.com/#blade/Microsoft_AAD_IAM/ActiveDirectoryMenuBlade/RegisteredApps) page in the Azure portal and click the **New registration** link.

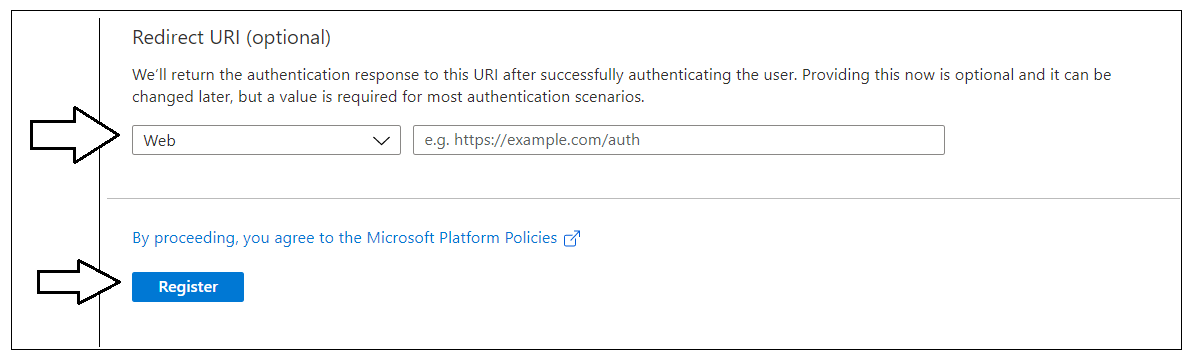
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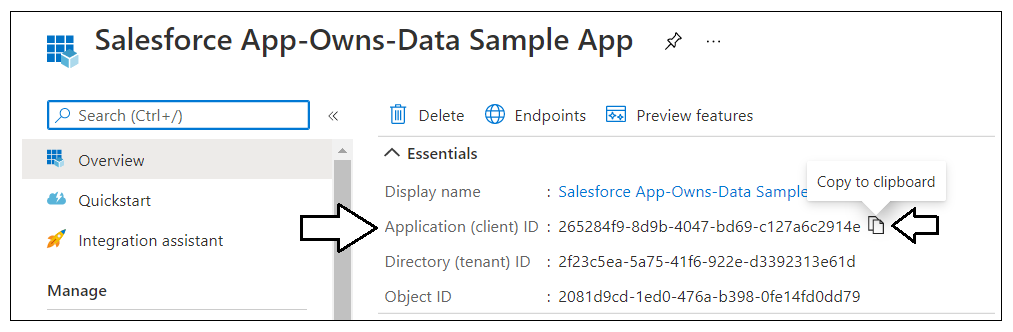
On the **Register an application** page, enter an application name such as **Salesforce App-Owns-Data Sample App** and accept the default selection for **Supported account types** of **Accounts in this organizational directory only**.



In the **Redirect URI** section leave the default selection in the dropdown box to **Web** and leave the textbox to the right of the dropdown box empty. Note that you do not need to add a Redirect URI when acquiring app-only access tokens using Client Credentials Flow. Click the **Register** button to create the new Azure AD application.



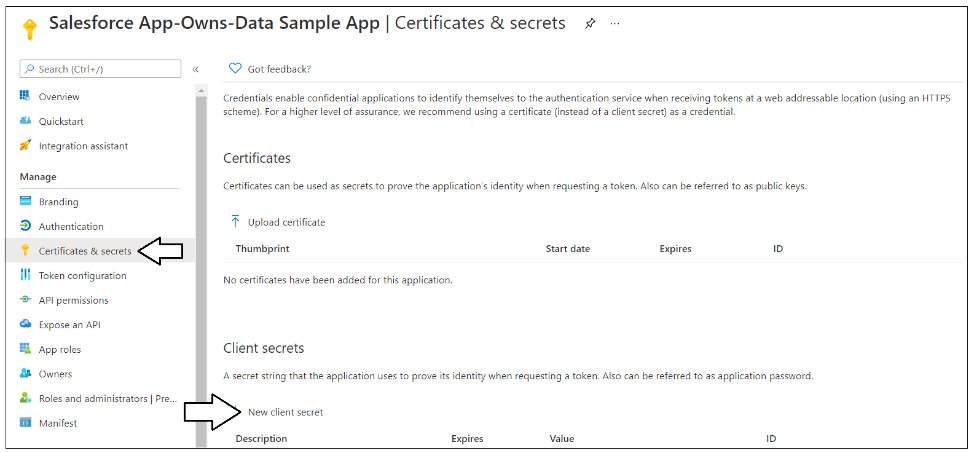
After creating a new Azure AD application in the Azure portal, you should see the Azure AD application overview page which displays the **Application ID**. Note that the *Application ID* is often called the *Client ID*. You will need to copy this Application ID and use it later to configure the project's support for Client Credentials Flow.



Copy the application ID and paste it into a text document so you can use it later. Note that this is the ClientID value that will be used by **SalesforceAppOwnsDataEmbedding** project.



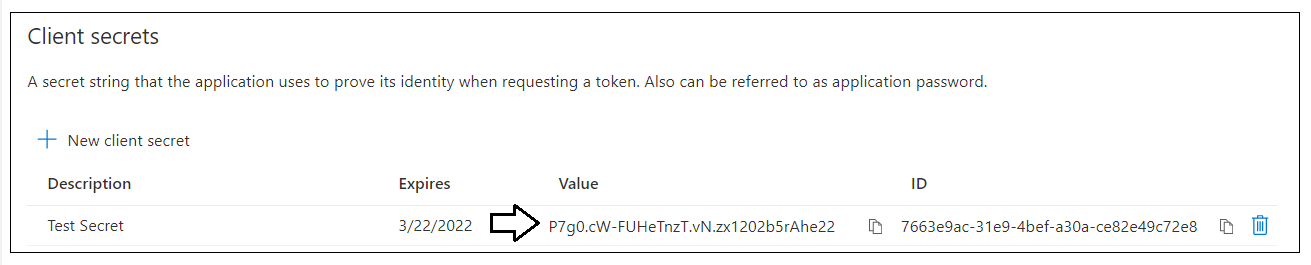
Next, you need to create a Client Secret for the application which will act as the application's password when it authenticates using Client Credentials Flow. Click on the **Certificates & secrets** link in the left navigation to move to the **Certificates & secrets** page. On the **Certificates & secrets** page, click the **New client secret** button as shown in the following screenshot.



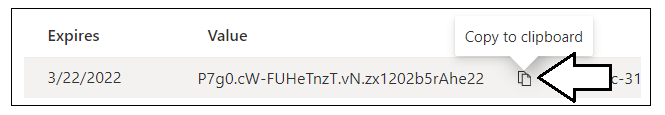
In the **Add a client secret** dialog, add a text description such as Test Secret and then click the **Add** button.



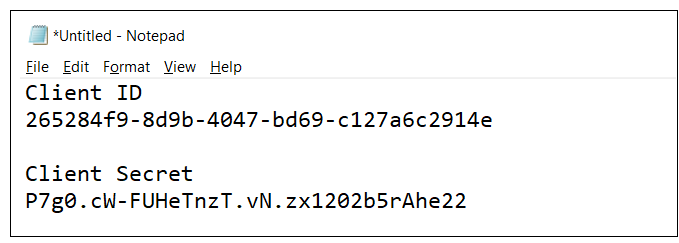
Once you have created the client secret, you should be able to see its **Value** in the **Client secrets** section.



Click on the **Copy to clipboard** button to copy the client secret into the clipboard.



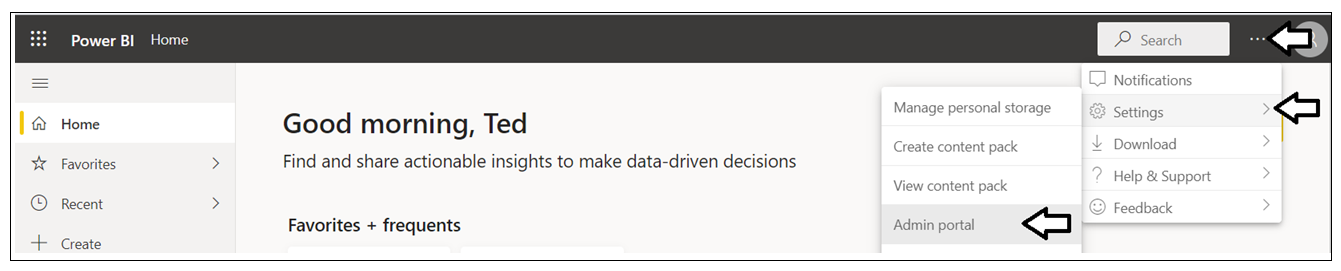
Copy the Client Secret into the same text document along with the Client ID.



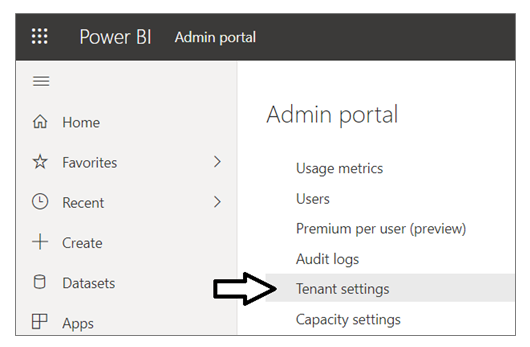
Note that you will need to configure the **SalesforceAppOwnsDataEmbedding** with these values for the Client ID and the Client Secret. These credentials values will be tracked in the Salesforce environment using a Custom Metadata Type.

## Configure Service Principal Support in the Power BI Tenant

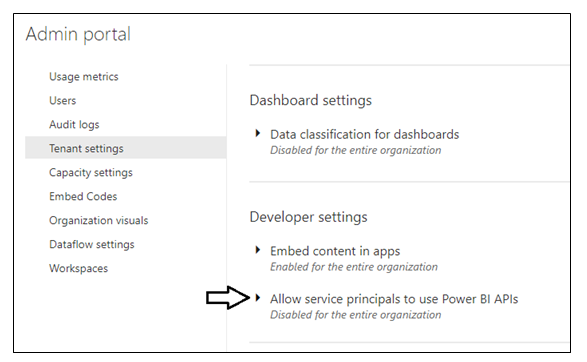
Enable the Allow service principals to use Power BI APIs setting and configure it with the Power BI Apps security group. Navigate to the Power BI portal at <https://app.powerbi.com>. Drop down the Settings menu and select the navigation command for the Admin portal.



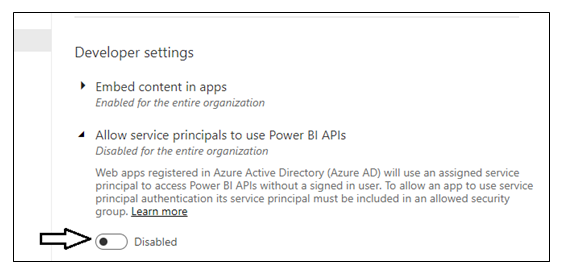
In the Power BI Admin portal, click the **Tenant settings** link on the left.



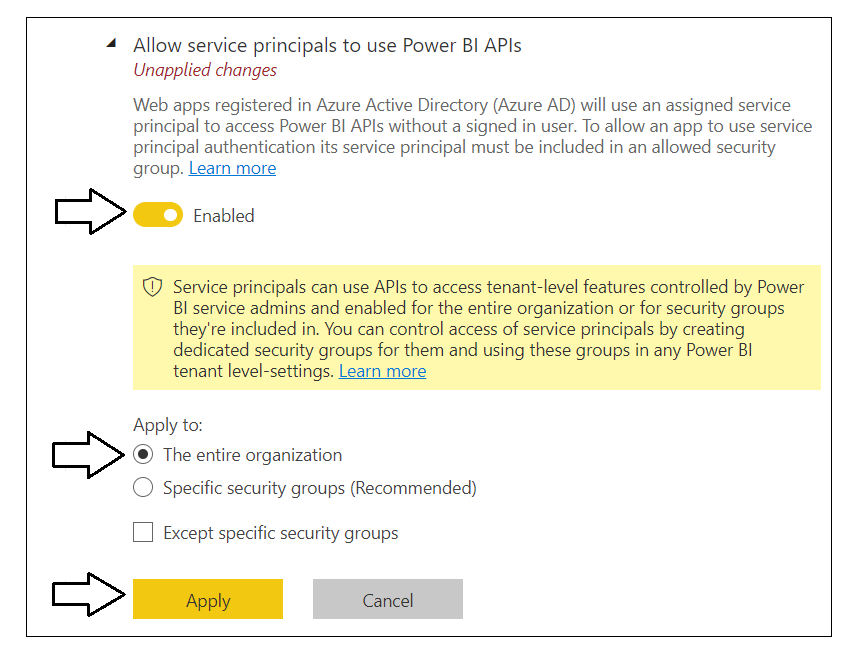
Move down in the Developer settings section and expand the Allow service principals to use Power BI APIs section.



Note that the Allow service principals to use Power BI APIs setting is initially set to Disabled.



Change the setting to **Enabled** and place your cursor inside the **Apply to: Specific security groups** textbox.



You will see a notification indicating it may take up to 15 minutes until your tenant recognizes your configuration changes.

Text

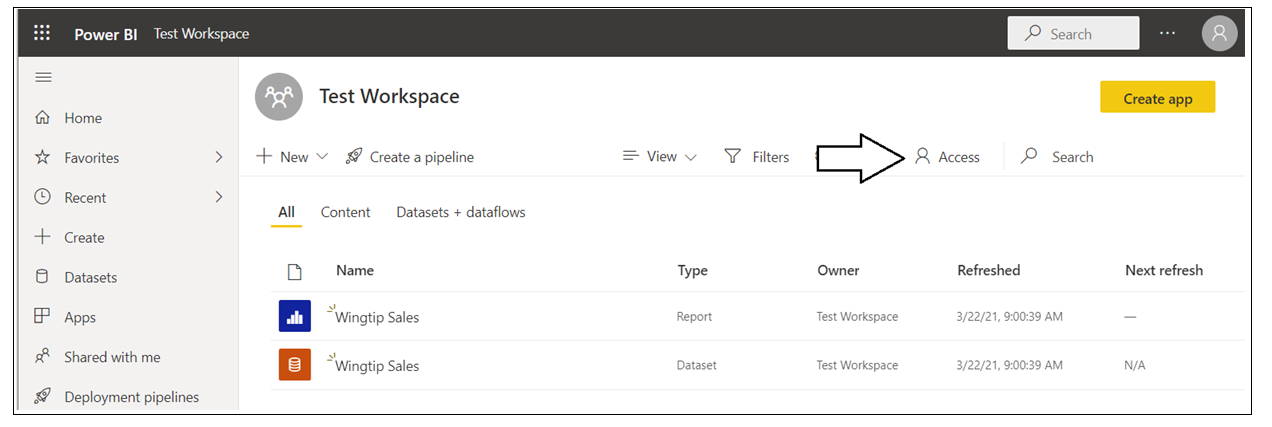
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## Configure Service Principal Access to a Power BI Workspace

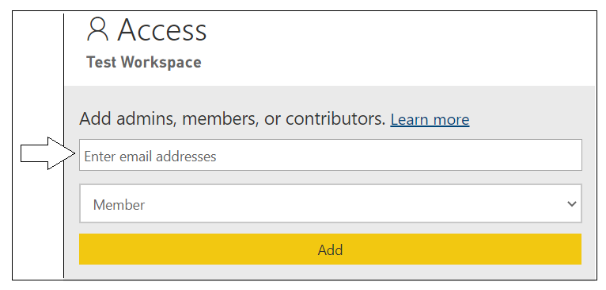
Add the Azure AD service principal for the Azure AD application to a Power BI workspace as an administrator.

Click the Dev Camp Lab workspace in the left navigation to display the workspace summary page.

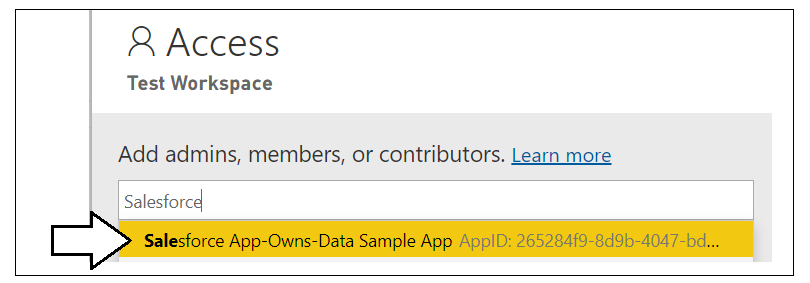
Click the Access link to open the Access pane where you can configure who has access to workspace resources.



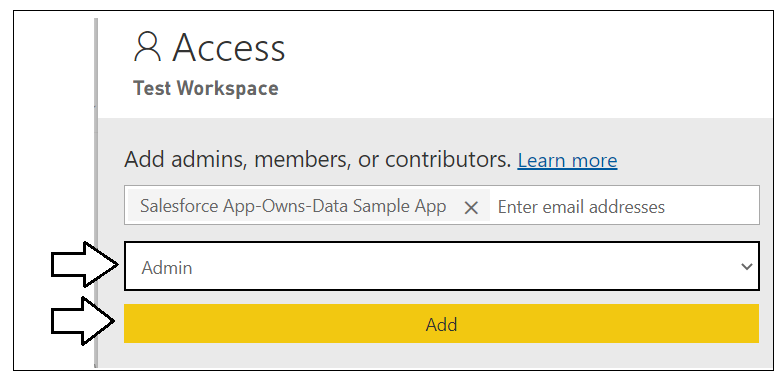
In the search box with the caption of Enter email address, type App-Owns-Data to find the Azure AD application.



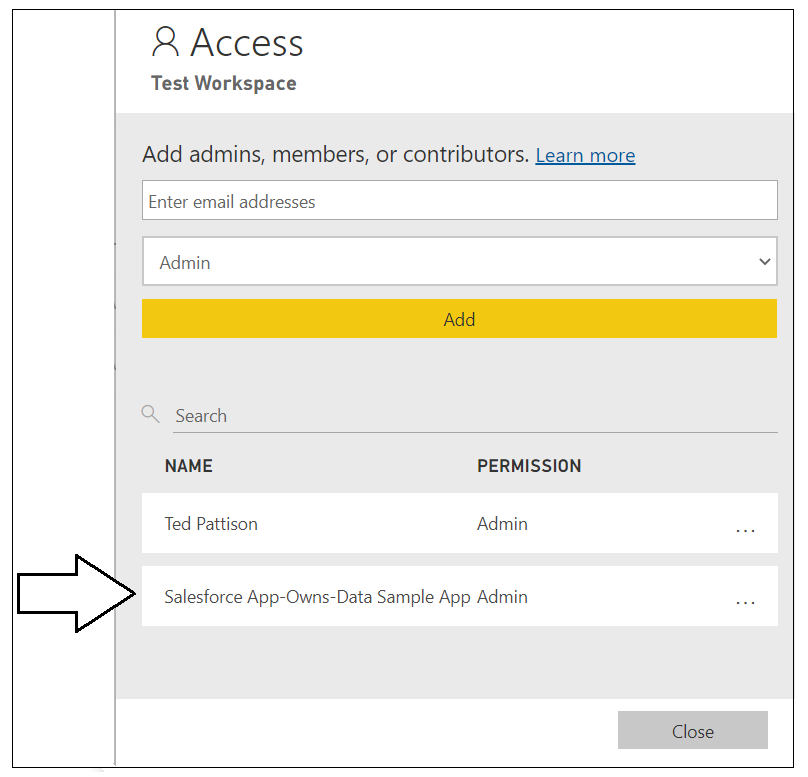
In the search box with the caption of Enter email address, type App-Owns-Data to find the Azure AD application.



Select the Azure AD application named App-Owns-Data Sample App. Select Admin in the dropdown menu to specify the level of access and then click the Add button.



You should now be able to confirm that the App-Owns-Data Sample App has been configured as a workspace admin.



Close the Access pane.

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